METHOD AND APPARATUS FOR ENHANCED POWER CONSUMPTION HANDLING OF BUS-CONTROLLED COMPONENTS

ABSTRACT OF THE DISCLOSURE

A method and apparatus for handling power consumption of a bus-controlled component such that the power requirements of the bus-controlled component are met without drawing excessive power from the computer bus. The apparatus of the present invention includes two embodiment of a bus power handling device that enables power to be obtained directly from a power supply and from a bus slot. In a first embodiment, the bus power handling device fits between the bus slot and the bus-controlled component and enable the component to obtain power directly from a power supply and from the bus slot. In a second embodiment, the bus power handling device is located on the bus-controlled component and allows connection to the power supply and the bus slot. The method of the present invention includes a technique to draw additional power required for the bus-controlled component directly from a power supply. In particular, the method of the present invention includes redirecting power leads of a bus-controlled component from the bus connection to a bus power-handling device and connecting the bus power-handling device to a power supply. In addition, the method includes ensuring that the bus-controlled component does not draw power from the bus connection than allowed by the computer bus specification.